



UNITED STATES DEPARTMENT OF COMMERCE  
National Telecommunications and  
Information Administration  
Washington, D.C. 20230

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FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

Mr. Bruce Franca  
Acting Chief  
Office of Engineering Technology  
Federal Communications Commission  
Washington, DC 20554

WT Docket No. 00-32 /

Re: My letter of March 13, 2001 regarding CEC operation in spectrum adjacent to  
4940-4990 MHz

Dear Mr. Franca:

My referenced letter provided to the Commission a clarification of the geographic areas where the Department of Defense Cooperative Engagement Capability (CEC) will be used for training in its high power, full bandwidth mode. The intent of that clarification was to clearly identify CEC operations 30 nautical miles (nm) inland from and along certain segments of the Atlantic Ocean, Pacific Ocean, and Gulf of Mexico. It is believed that the clarifications offered in that letter did not significantly affect any additional Economic Areas that were not previously identified in the 4.9 GHz Notice of Proposed Rulemaking, Appendix E (FCC 00-63).

In follow-on discussions subsequent to that letter, FCC staff raised concerns about the adequacies of the manner in which the CEC operating areas were previously defined. The Department of Defense (DoD) subsequently redefined the training areas by identifying the specific counties in which CEC operations would occur. This approach was reviewed by a team of DoD attorneys including representatives from the DoD Office of General Counsel, Judge Advocate General (JAG) Office, and the Naval Sea Systems Command (NAVSEA) Office of General Counsel. The revised CEC Training Areas List contained in Enclosure 1 is based on definition by counties.

Utilizing counties as the basis to define the training areas necessitates a small unavoidable change in the inland extent of the training areas. However, it is believed that these changes do not significantly increase the inland extent of the training areas, and in some cases actually decrease the inland extent.

Two other changes have been made to the list. In an effort to decrease impact areas, the entire list was reviewed, and Greenville, SC was removed and replaced by Beaufort Marine Corps Station, SC. This represents an extension of Training Area 9 northward from the previously defined South Carolina - Georgia state line. This exchange significantly decreases the area impacted by CEC emissions. Other aspects of CEC operation as described in my referenced letter are still appropriate and are repeated below:

Training will be conducted with the CEC system within the geographic areas identified in Enclosure 1. This list further clarifies the list previously provided by NTIA and included in the

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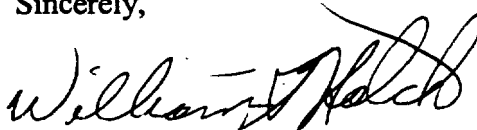
4.9 GHz Notice of Proposed Rulemaking issued by the Commission. The attached list includes three additional ground-only training sites (Dahlgren, VA; Reedville, VA; and Huntsville, AL) that were not within the previously identified CEC training areas. These three locations, however, are included within the CEC Impacted Economic Areas identified by the Commission and included as Appendix E of the 4.9 GHz NPRM. Within all of these training areas, the high power mode and full band capability (with the upper limit of the CEC authorized bandwidth limited to 4940 MHz) will be used for testing and training with emission levels as indicated in Enclosure 2.

Operational use of the CEC system will occur outside of these training areas and such use will continue to evolve as national defense requirements for the CEC system are further defined. In areas outside of the identified training areas previously identified where commercial users have secured radio station licenses, the Department of Defense has agreed that any operational use of the CEC system will be limited to the medium power mode and observance of 50 MHz guardband below 4940 MHz. Consequently, CEC emission levels within the 4940-4990 MHz band will consist of, at most, baseline spurious emissions as shown in Enclosure 2. Please note that the power levels in a 4 kHz band indicated on this figure are e.i.r.p levels, i.e., includes the mainbeam antenna gain of the CEC system. These levels are well below both NTIA and FCC spurious emission requirements for mobile, including aeronautical mobile, services. We recognize that neither these spurious levels, nor any of the spurious limits established by NTIA or the FCC for licensed services, can guarantee that interference will never occur. Nevertheless, we believe that spurious interference cases that may occur, if any, will be very few in number and can be resolved on a case-by-case basis through the normal NTIA/FCC coordination processes. Further, we believe that these spurious emission levels from possible operational use outside the training areas will not negatively impact the commercial viability of the 4940-4990 MHz band.

In areas outside of the training areas previously identified where commercial users have not secured radio station licenses, the Department of Defense reserves the right, in coordination with NTIA and the FCC, to permanently expand the training areas and utilize the high power mode and full band capability.

Any exceptions to the above, as a consequence of a national emergency, will be conducted in accordance with Section 7.3.1 of the NTIA Manual and will be notified to the Commission as early as is practical. The number of such exceptions, if any, is expected to be very limited.

Sincerely,

A handwritten signature in black ink, appearing to read "William T. Hatch", with a stylized flourish at the end.

William T. Hatch  
Associate Administrator  
Office of Spectrum Management

Enclosures

cc: Mr. Victor Sparrow  
Mr. Bruce Swearingen  
Mr. Roger Davis

# ENCLOSURE 1

## CEC TRAINING AREA 1

Training Area 1 supports Atlantic Coast Exercises, and extends inland from, seaward from, and along the low water mark of a portion of the Mid-Atlantic and South-Atlantic coastline, and includes separate areas in Maryland (MD) and Virginia (VA).

**INLAND PORTION:** The inland portion of Training Area 1 extends westward from the low water mark of the Atlantic Ocean, and includes all of the area contained within the boundaries of the following counties and within the other identified areas in the indicated state:

|                      |  |
|----------------------|--|
| Delaware (DE):       | Sussex County  |
| Maryland (MD):       | Wicomico, Somerset, and Worcester Counties   |
| Virginia (VA):       | Accomack and Northampton Counties; all of the area east of the eastern most boundaries of Isle of Wight and Southampton Counties (includes the cities of Suffolk, Portsmouth, Chesapeake, Virginia Beach, Norfolk, and others) |
| North Carolina (NC): | Currituck, Camden, Pasquotank, Perquimans, Tyrell, Dare, Hyde, Craven, Pamlico, Jones, Carteret, Onslow, Pender, New Hanover, and Brunswick Counties   |

Exercises within the above boundaries of the inland portion of Training Area 1 will include aircraft operating at altitudes to 30 thousand feet (kft), mobile ground based equipment, and permanent ground based equipment. Aircraft and mobile ground based equipment can be positioned anywhere in the defined area. Permanent ground based terminals are now located at Wallops Island, VA; Eastville, VA; and Dam Neck Fleet Combat Training Center-Atlantic, VA. Other permanent ground based terminals will be added within the above defined area as required. Other specific sites within the above defined area include, but are not limited to: Norfolk Naval Base, VA; Norfolk Naval Air Station (NAS), VA; Little Creek Naval Amphibious Base, VA; Oceana NAS, VA; Marine Corps Bogue Field, NC; and Cherry Point Marine Corps Air Station (MCAS), NC.

Permanent ground based terminals not within the above defined area operate within the legal boundaries of the Naval Surface Warfare Center at Dahlgren, VA; and the Patuxent River Naval Air Warfare Center, MD. A permanent ground based terminal also operates within a 5 nm radius of Reedville, VA.

**SEAWARD PORTION:** The seaward portion of Training Area 1 is bounded on the north by the line that extends eastward from the low water mark of the Atlantic Ocean along 38.914055 north decimal degrees of latitude. The western boundary of the seaward portion of Training Area 1 begins at the intersection of the low water mark of the Atlantic Ocean with 38.914055 north decimal degrees of latitude, extends generally southward and southwestward along the low water mark of the Atlantic Ocean to the intersection of the low water mark with 78.660000 west decimal degrees of longitude, and then continues southward along 78.660000 west decimal degrees of longitude. There is no eastern or southern boundary of the seaward portion of Training Area 1. Exercises in the seaward portion of Training Area 1 will include aircraft operating at altitudes to 30 kft and surface ships. These assets can be positioned anywhere within the defined area.

## **CEC TRAINING AREA 2**

Training Area 2 supports Gulf Coast exercises. Training Area 2 extends inland from, seaward from, and along the low water mark of a portion of the Florida (FL), Alabama (AL), and Mississippi (MS) Gulf coastlines, and includes a separate area near Huntsville, AL and a separate area encompassing Pinellas County, FL.

**INLAND PORTION:** The inland portion of Training Area 2 extends northward from the low water mark of the Gulf of Mexico, and includes all of the areas contained within the boundaries of the following counties in the indicated state:

|                   |   |
|-------------------|---|
| Florida (FL):     | Bay, Washington, Holmes, Walton, Okaloosa, Santa Rosa, and Escambia |
| Alabama (AL):     | Baldwin and Mobile  |
| Mississippi (MS): | George, Pearl River, Stone, Jackson, Harrison, and Hancock          |

Exercises within the boundaries of the inland portion of Training Area 2 identified above will include aircraft operating at altitudes to 30 kft, mobile ground based equipment, and permanent ground based equipment. Aircraft and mobile ground based equipment can be positioned anywhere within the area defined above. Permanent ground based terminals will be added within the above defined area as required. Specific sites within the area identified above include, but are not limited to, Pensacola NAS, FL; Eglin Air Force Base (AFB), FL; and Tyndall AFB, FL.

Redstone Arsenal, located in Madison County, AL is included in Training Area 2. Mobile and ground based equipment will be located anywhere within the legal boundaries of Redstone Arsenal. Aircraft operating in the vicinity of Redstone Arsenal will maintain emissions at the lower defined power level and reduced bandwidth.

Pinellas County, FL is included in Training Area 2. Mobile and ground based equipment will be located anywhere within the legal boundaries of Pinellas County. Permanent ground based terminals are now located in the St. Petersburg, FL metropolitan area. Aircraft operating above Pinellas County, FL will maintain emissions at the lower defined power level and reduced bandwidth.

**SEAWARD PORTION:** The seaward portion of Training Area 2 is bounded on the east by the line that extends southward from the low water mark of the Gulf of Mexico along 85.400000 west decimal degrees of longitude. The northern boundary of the seaward portion of Training Area 2 begins at the intersection of the low water mark of the Gulf of Mexico with 85.400000 west decimal degrees of longitude, extends generally westward along the low water mark of the Gulf of Mexico to the intersection of the low water mark with 89.350000 west decimal degrees of longitude. The seaward portion of Training Area 2 is bounded on the west by the line that extends due southeast from the intersection of low water mark of the Gulf of Mexico with 89.350000 west decimal degrees of longitude. There is no southern boundary of the seaward portion of Training Area 2. Exercises in the seaward portion of Training Area 2 will include aircraft operating at altitudes to 30 kft and surface ships. These assets can be positioned anywhere within the defined area.

## **CEC TRAINING AREA 3**

Training Area 3 supports Pacific Coast Exercises, and extends inland from, seaward from, and along the low water mark of a portion of the California (CA) mid and southern Pacific coastline.

**INLAND PORTION:** The inland portion of Training Area 3 extends eastward from the low water mark of the Pacific Ocean, and includes all of the land areas contained within the boundaries of Ventura and Santa Barbara Counties in the state of California.

Exercises within the boundaries of the inland portion of Training Area 3 will include aircraft operating at altitudes to 30 kft, mobile ground based equipment, and permanent ground based equipment. Aircraft and mobile ground based equipment can be positioned anywhere within the area identified above. Permanent ground based terminals will be added within the area identified above as required. Specific sites within the identified area include, but are not limited to, Vandenberg AFB, CA; Point Magu NAS, CA; and Naval Surface Warfare Center at Port Hueneme, CA.

**SEAWARD PORTION:** The seaward portion of Training Area 3 is bounded on the north by the line that extends westward from the low water mark of the Pacific Ocean along 34.960000 north decimal degrees of latitude. The eastern boundary of the seaward portion of Training Area 3 begins at the intersection of the low water mark of the Pacific Ocean with 34.960000 north decimal degrees of latitude, extends generally southward and eastward along the low water mark of the Pacific Ocean to the intersection of the low water mark with 119.000000 west decimal degrees of longitude, then continues south along 119.000000 west decimal degrees of longitude. There is no southern or western boundary of the seaward portion of Training Area 3. Exercises in the seaward portion of Training Area 3 will include aircraft operating at altitudes to 30 kft and surface ships. These assets can be positioned anywhere within the defined area.

## **CEC TRAINING AREA 4**

Training Area 4 supports Pacific Coast Exercises, and extends inland from, seaward from, and along the low water mark of a portion of the southern California (CA) Pacific coastline.

**INLAND PORTION:** The inland portion of Training Area 4 extends eastward from the low water mark of the Pacific Ocean, and includes all of the land areas contained within the boundaries of San Diego County in the state of California. Exercises within the boundaries of the inland portion of Training Area 4 will include aircraft operating at altitudes to 30 kft, mobile ground based equipment, and permanent ground based equipment. Aircraft and mobile ground based equipment can be positioned anywhere within the area identified above. Permanent ground based terminals will be added within the area defined above as required. Specific sites within the area defined above include, but are not limited to, Camp Pendleton Marine Corps Base, CA; Miramar NAS, CA; Coronado Naval Amphibious Base, CA; U.S. Naval Air Station North Island, CA; and at the Naval facilities located on the Point Loma, CA peninsula.

**SEAWARD PORTION:** The seaward portion of Training Area 4 is bounded on the north by the line that extends westward from the low water mark of the Pacific Ocean along 33.450000 north decimal degrees of latitude. The eastern boundary of the seaward portion of Training Area 4 begins at the intersection of the low water mark of the Pacific Ocean with 33.450000 north decimal degrees of latitude, extends generally southward and eastward along the low water mark of the Pacific Ocean to the intersection of the low water mark with 32.600000 north decimal degrees of latitude. The seaward portion of Training Area 4 is bounded on the south by the line that extends westward from the low water mark of the Pacific Ocean along 32.600000 north decimal degrees of latitude. There is no western boundary of the seaward portion of Training Area 4. Exercises in the seaward portion of Training Area 4 will include aircraft operating at altitudes to 30 kft and surface ships. These assets can be positioned anywhere within the defined area.

## **CEC TRAINING AREA 5**

**TRAINING AREA 5:** Training Area 5 includes all areas within the boundaries of the White Sands Missile Range, New Mexico (NM) and the Fort Bliss Military Reservation, Texas (TX) and NM, to support the Joint Chiefs of Staff Roving Sands Exercise. The exercises will include aircraft flying at altitudes to 30 kft, mobile ground based equipment, and permanent ground based equipment. The assets can be positioned anywhere within the identified areas.

## **CEC TRAINING AREA 6**

**TRAINING AREA 6:** Training Area 6 includes the China Lake Naval Weapons Center, CA; Fort Irwin Military Reservation, CA; and Twentynine Palms Marine Corps Base, CA. The exercises will include aircraft flying at altitudes to 30 kft, mobile ground based equipment, and permanent ground based equipment. The assets can be positioned anywhere within the identified areas.

## **CEC TRAINING AREA 7**

**TRAINING AREA 7:** Training Area 7 supports Pacific training exercises. Training Area 7 includes all of the state of Hawaii and the Pacific Ocean waters surrounding the islands of Hawaii.

Exercises within the land boundaries of Training Area 7 will include aircraft operating at altitudes to 30 kft, mobile ground based equipment, and permanent ground based equipment. Aircraft and mobile ground based equipment can be positioned anywhere within the area. Permanent ground based terminals will be added as required. Specific sites within Training Area 7 include, but are not limited to, the Pacific Missile Range Facility on the Island of Kauai.

Exercises in the Pacific Ocean waters will include aircraft operating at altitudes to 30 kft and surface ships. These assets can be positioned anywhere. The waters of the Pacific Missile Range Facility are included.

## **CEC TRAINING AREA 8**

**TRAINING AREA 8:** Training Area 8 supports Atlantic Ocean and Caribbean Ocean training exercises. The area includes all of Puerto Rico; St. Thomas, Virgin Islands; and the ocean waters surrounding Puerto Rico and The Virgin Islands.

Exercises within the land boundaries of Training Area 8 include aircraft operating at altitudes to 30 kft, mobile ground based equipment, and permanent ground based equipment. Aircraft and mobile ground based equipment can be positioned anywhere within the area. A permanent ground based terminal is located on St. Thomas, Virgin Islands. Other permanent ground based terminals will be added as required. Specific sites within Area 8 include, but are not limited to, the Armed Forces Weapons Test Facility and the Navy Reservation, Vieques Island.

Exercises in the Atlantic Ocean and Caribbean Ocean waters will include aircraft operating at altitudes to 30 kft and surface ships. These assets can be positioned anywhere. The waters of the Armed Forces Weapons Test Facility are included.

## **CEC TRAINING AREA 9**

Training Area 9 supports Atlantic Coast exercises. Training Area 9 extends inland from, seaward from, and along the low water mark of a portion of the South Carolina (SC) and Georgia (GA) Atlantic coastlines, and includes a separate area in the Jacksonville, Florida (FL) metropolitan area.

**INLAND PORTION:** The inland portion of Training Area 9 extends westward from the low water mark of the Atlantic Ocean, and includes all of the areas contained within the boundaries of the following counties and facilities in the indicated state:

South Carolina (SC):  
Georgia (GA):

Beaufort and Jasper Counties  
Chatham, Bryan, Liberty, Long, and McIntosh Counties; Ft. Stewart  
U.S. Army Facility

Exercises within the boundaries of the inland portion of Training Area 9 will include aircraft operating at altitudes to 30 kft, mobile ground based equipment, and permanent ground based equipment. Aircraft and mobile ground based equipment can be positioned anywhere within the area defined above. Permanent ground based terminals will be added within the above defined area as required. Specific sites within the above defined area include, but are not limited to, Beaufort MCAS, SC; Wright Army Air Field, GA; and Hunter Army Air Field, GA. All of the area within the legal boundaries of Ft. Stewart U.S. Army Facility, GA is included.

Training Area 9 also includes the Jacksonville, FL metropolitan area. Mobile and ground based equipment will be located anywhere within the legal boundaries of the Jacksonville NAS, FL. Mobile, ground based, and ship based equipment will be located anywhere within the legal boundaries of the Mayport Naval Station, FL. Aircraft operating in the vicinity of Jacksonville, FL will maintain emissions at the lower defined level.

**SEAWARD PORTION:** The seaward portion of Training Area 9 is bounded on the north by the line that extends eastward from the low water mark of the Atlantic Ocean along 32.480000 north decimal degrees of latitude. The western boundary of the seaward portion of Training Area 9 begins at the intersection of the low water mark of the Atlantic Ocean with 32.480000 north decimal degrees of latitude, extends generally southward and southwestward along the low water mark of the Atlantic Ocean to the intersection of the low water mark with 31.370000 north decimal degrees of latitude. The seaward portion of Training Area 9 is bounded on the south by the line that extends eastward from the low water mark of the Atlantic Ocean along 31.370000 north decimal degrees of latitude. There is no eastern boundary of the seaward portion of Training Area 9. Exercises in the seaward portion of Training Area 9 will include aircraft operating at altitudes to 30 kft and surface ships. These assets can be positioned anywhere within the defined area.



## ENCLOSURE 2

